

Samuel Nandi

Brazzaville, Republic of Congo | Mail | | Github | Linkedin | +242 04 439 2833

About Me

I am a software developer who enjoys crafting software solutions for day-to-day problems. I have a passion for technology and a keen interest in learning both new and old technologies.

I would like to be in the future someone who builds low-level software, or just tools that other software developers can use to build their own software.

Education

ALX Software Engineering Program, Certificate of Software Engineering Feb 2023 – Oct 2024

- **Coursework:** Data Structures, Algorithms, System engineering devops, Computer Networks, Databases, Software Engineering, Web Development etc.

ESGAE, Bachelor of Software Engineering Oct 2023 – Jul 2024

- **Coursework:** Software Architecture, UML, 2TUP, Databases, Software Engineering, Web Development, Mobile Development.

ESGAE, Associate of Analysis and Programming Oct 2022 – Jul 2023

- **Coursework:** C, C#, Java, SQL, HTML, CSS, JavaScript, PHP, Python, UML, Merise, Databases, Algorithms etc.

Scientific High School of Massengo, Congo, Mathematical Jul 2021

Experience

Software Engineer Intern, Microsoft – Redmond, WA June 2003 – Aug 2003

- Designed a UI for the VS open file switcher (Ctrl-Tab) and extended it to tool windows
- Created a service to provide gradient across VS and VS add-ins, optimizing its performance via caching
- Built an app to compute the similarity of all methods in a codebase, reducing the time from $\mathcal{O}(n^2)$ to $\mathcal{O}(n \log n)$
- Created a test case generation tool that creates random XML docs from XML Schema
- Automated the extraction and processing of large datasets from legacy systems using SQL and Perl scripts

Technical Skills

Languages

- **Scripting** : TypeScript/JavaScript, Python, Bash
- **Programming** : Go, C
- **Markup** : HTML, CSS, Markdown, \LaTeX

Databases

- **Relational** : MySQL, PostgreSQL, SQLite
- **Non relational** : MongoDB

Other tools

- **Operating System and Editor** : GNU/Linux, Neovim
- **Frameworks, libraries, ORM** : React, Node.js, TailwindCSS, Prisma
- **Version control** : Git
- **Design** : Figma

Projects

CelloTree

Github

- A web application that allows users to create and share family trees.
- Tools Used: TypeScript, Next.js, Prisma, PostgreSQL, Docker

Kolandéla

Github

- A mobile application for managing personal finances.
- Tools Used: TypeScript(Frontend), Go(Backend), SQLite, React Native